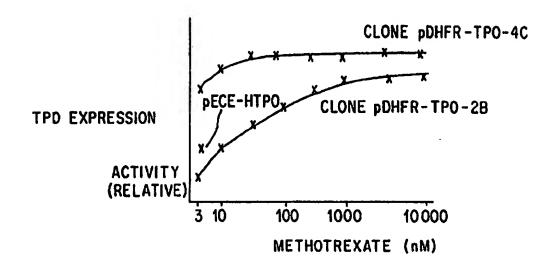


F1G. 8



F1G. 5

2611

2662

AGG CTC CCT CGG GTG ACT TGG ATC ICC ATG TCG CTG GCT GCT CTG CTG ATC G PHTPD-BS

Eco R1

Stop

Stop

pHTPO(M1)-BS AGG CTC CCT CGG GTG ACT TGA ATI CCC ATG TAG CTG GCT GCT CTG CTG ATC G

F16.6

GAG	ĢCA	ATT	GAG	GCG	CCC	ATT	TCA	27 GAA		TTA	CAĢ	cce	TGA	AAA	TTA	CTÇ	54 AGC
AGT	GCA	GTT	GGC	TGA	GAA	GAG	GAA	B1 AAA	AGA	ATG MET		GCG Ala					-
										TTC Phe							
										TCT Ser							
										TAC Tyr							
										CTT Leu							-
										GCA Ala							
										ACT Thr							
										ATT Ile	Ala						

FIG. 7A

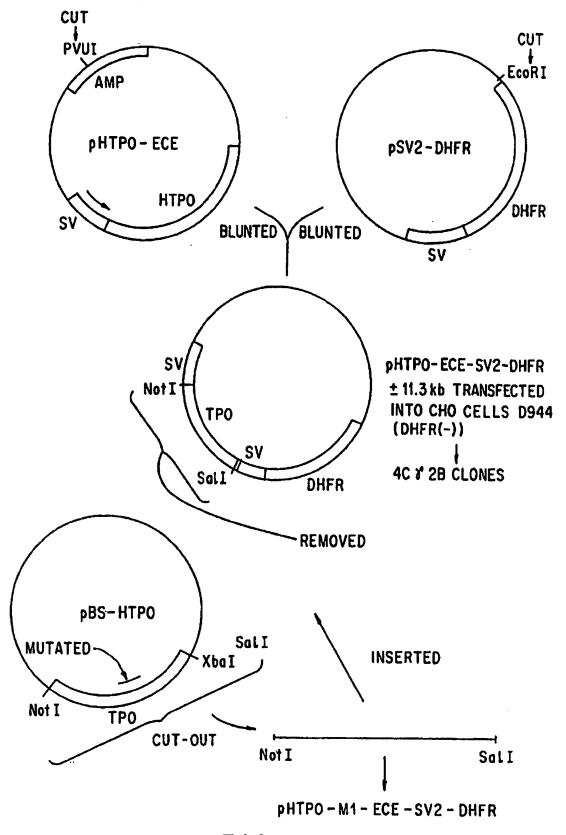
					AAC		GCG Ala		
							TGG Trp		
							GGC Gly		
							CTG Leu		
							GTC Va l		
							GAC Asp		
							GGG Gly		
							CTC Leu		
							TCT Ser		

								999									1026
GGC	ACC	นเน	GAC	CAA	GGC	GCG	CTC	111	GGG	AAC	CTG	TCC	ACG	GCC	AAC	CCG	AGG
uly	Ihr	uly	Asp	Uln	uly.	Ala	Leu	Phe	ыy		Leu	Ser	Thr	Ala	Asn	Pro	Arg
										×							
CAC	CAC	ATC	440		TTC	400		1053	076	C.4.0	COC	700					1080
CAU	LAU	AIU	AAC	ննն	116	ALL	ILU	III.	LIU	UAL	նեն	ICC	ACC	616	IAT	CCC	AGC
UIN	uin	Met	Asn	uly	Leu	ınr	26L	rne	Leu	Asp	Ata	3er	Ihr	Yal	lyr	Gly	Ser
								1107									
700	005	500	CT4			245		1107		TC C			500				1134
			CTA														
26L	rro	AIG	Leu	ulu	arg	uin	Leu	arg		ırp	Inr	Ser	Ala	นเน	uly	Leu	Leu
									×								
								1161						_			188
			GGC														
Arg	Val	HIS	Gly	Arg	Leu	Arg	Asp	Ser	Gly	Arg	Ala	Tyr	Leu	Pro	Phe	Val	Pro
							1	1215					٠.				242
CCA	CCC	GCG	CCT	הרה	CCC	TGT	-		GAG	CCC	cer	AAC	CCC	CCA	GAC		242
Pro																	
110	nı y	nıu	110	nıu	nıu	Cys	ntu	110	ulu	110	uty	HSII	rru	uty	utu	Im	arg
							1	269							,	1	296
GGG	CCC	ፐርር	TTC	CTG	ECC.	GGA	_		CGC	600	AGC	GAG	GTC	CCC	TCC		
Gly																	
u.,		٠, ٠				U. <i>j</i> .	11.5P	٠٠,	9		001	0.0			JC.	Leu	1111
								323								1	350
GCA	CTG	CAC	ACG	CTG	TGG	CTG	CGC	GAG	CAC	AAC	CGC	CTG	GCC	GCG	GCG		
Ala																	
					•		Ū				•						•
							1	377								1	404
GCC	CTC	AAT	GCG	CAC	TGG	AGC	GCG	GAC	GCC	GTG	TAC	CAG	GAG	GCG	CGC	AAG	GTC
Ala	Leu	Asn	Ala	His'	Trp	Ser	Ala	Asp	Ala	Val	Tyr	Gln	Glu	Ala	Arg	Lys	Val
					-			-			•				•	-	
								431								-	458
GTG	_																
Val	Gly	Ala	Leu	His	Gln	He	Ile	Thr	Leu	Arg	Asp	Tyr	Ile	Pro	Arg	He	Leu

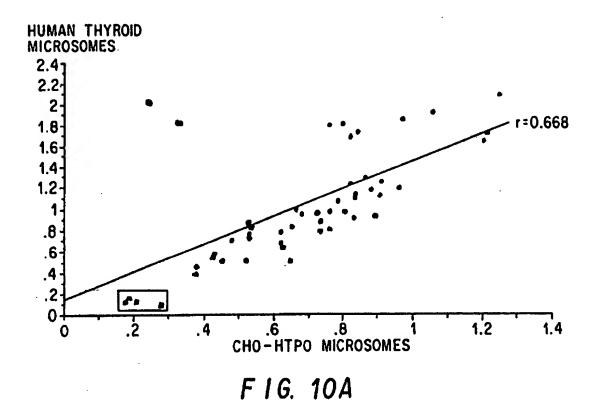
GGA G I y	CCC Pro	GAC Glu	GCC Ala	TTC Phe	CAG	CAG Gln	TAC Tyr	1485 GTG Val	GGT	CCC	TAT Tyr	GAA Glu	GGC	TAT Tyr	GAC Asp	TCC	1512 ACC Thr
GCC	AAC Asn	CCC Pro	ACT Thr	GTG Va l	TCC Ser	AAC Asn	GTG Va (1539 TTC Phe	TCC	ACA Thr	GCC	GCC Ala	TTC Phe	CGC Arg	TTC Phe	GGC	1566 CAT His
GCC Ala	ACG Thr	ATC I le	CAC His	CCG Pro	CTG Leu	GTG Val	AGG	1593 AGG Aro	CTG Leu	GAC Asp	GCC Ala	AGC Ser	TTC	CAG	GAG	CAC	1620 CCC
GAC	CTG	CCC	GGG	CTG	TGG	CTG	CAC	1647 CAG	GCT	TTC	TTC Phe	AGC	CCA	TGG	ACA	TTA	1674 CTC
CGT Arg	GGA Gly	GGT Gly	GGT Gly	TTG Leu	GAC Asp	CCA Pro	CTA	1701 ATA Ile	CGA Arg	GGC Gly	CTT Leu	CTT Leu	GCA Ala	AGA Arg	CCA Pro	GCC	1728 AAA Lys
CTG Leu	CAG Gln	GTG Va l	CAG Gln	GAT Asp	CAG Gln	CTG Leu	ATG	1755 AAC Asn	GAG Glu	GAG Glu	CTG Leu	ACG Thr	GAA Glu	AGG Arg	CTC Leu	TIT	1782 GTG Val
CTG	T C C	AAT Asn	TCC	AGC	ACC	TTG	GAT	1809 CTG	GCG	TCC	ATC Ile	AAC	CTG	CAG	AGG	GGC	836 CGG
GAC	CAC	GGG	CTG	CCA	GGT	TAC	AAT	863 GAG	TGG	AGG	GAG	TTC	TGC	GGC	CTG	CCT	890 CGC
CTG	GAG	ACC	CCC	GCT	GAC	CTG	1 AGC	917 ACA	GCC	ATC	GCC	AGC	AGG	AGC	GTG	1 GCC	944 GAC
Leu	Glu	Thr	Pro	Ala	Asp	Leu	Ser	Thr	Ala	He	Ala	Ser	Arg	Ser	Val	Ala	Asp

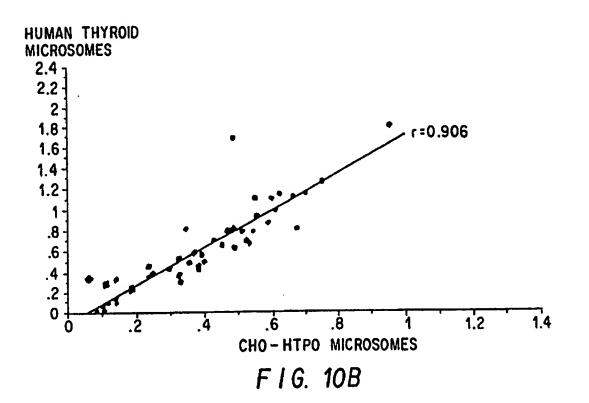
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AAG	ATC	CTG	GAC	TTG	TAC	AAG	CAT	CCT	GAC	AAC	ATC	GAT	GTC	TGG	CTG	GGA	GGC
Lys	He	Leu	Asp	Leu	Tyr	Lys	HIS	Pro	Asp	Asn	Ile	Asp	Val	Trp	Leu	Gly	Glv
			·		-	-						•		•		,	
								2025			•						2052
					CTC												
Leu	Ala	Glu	Asn	Phe	Leu	Pro	Arg	Ala	Arg	Thr	Gly	Pro	Leu	Phe	Ala	Cy5	Leu
																·	
								2079									21 06
					AAG												
He	Gly	Lys	ចក	Met	Lys	Ala	Leu	Arg	Asp	Gly	Asp	Trp	Phe	Trp	Trp	Glu	Asn
																_	
ACC	CAC	CTC.	TTC	ACC	CAY	CCA		2133	CCT	CAE	CTC	C. C		040	TA 0		2160
					GAT												
26L	HIS	AO' f	rne	ınr	Asp	Ala	นเก	arg	arg	นเน	Leu	ulu	Ly5	HIS	3er	Leu	2er
							•	2187									214
רהה	בנר	۸۲۲	TGT	נער	AAC	۸ςΤ			۸۲۲	۸۵۵	CTC	ררר	ATG.	GAT	cee		214
					Asn												
nı y	141	116	cys	noh	UOII	• • er	uty	LEU	1111	ט יח	141	110	rie C	nah	пш	rne	um
							í	2241								2	268
GTC	GGC	AAA	TTC	CCC	GAA	GAC			TCT	TGT	GAC	AGC	ATC	ACT	GGC		
					Glu												
	•					•				•	•				•		
							ä	2295								2	355
CTG	GAG	GCC	TGG	AGG	GAA	ACC	TTT	CCT	CAA	GAC	GAC	AAG	TGT	GGC	TTC	CCA	GAG
Leu	Glu	Alà	Trp	Arg	Glu	Thr	Phe	Pro	Gln	Asp	Asp	Lys	Cys	Gly	Phe	Pro	Glu
		•															
			_				_	2349								_	376
					GAC												
Ser	Val	Glu	Asn.	Gly	Asp	Phe	Va I	His	Cys	Glu	Glu	Ser	Gly	Arg	Arg	Val	Leu
							•	2403								5	2430
стс	TAT	TCC	TCC	CCC	CAC	ccc.	-		רדר	CVV	המר	רנינ	ניעני	CVC	CIC		
					His												
Y U. (1 91	251.	C y S	mr y	1115	uty	ı yı	ulu	LEU	UUI	uty	nr y	utu	u (II	Ltu	1111	cys
							í	2457								2	484
ACC	CAG	GAA	GGA	TGG	GAT	TTC			CCC	CTC	TGC	AAA	GAT	GTG	AAC	_	
					Asp												

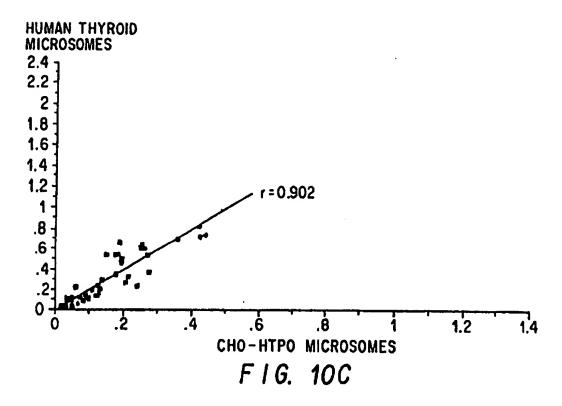
								2511									538
																ACC (
Ala	Asp	Gly	Ala	HIS	Pro	Pro	Cys	HIS	Ala	zer	Ala	Arg	Cys	arg	Asn	Thr I	Ly5
							•	2565								2	592
GGC	GGC	TIC	CAG	TGT	CTC	TGC	-		CCC	TAC	GAG	TTA	GGA	GAC	GAT	GGG	
																Gly	
•	•			•												•	
400	TCC	CTA	CAC	TCC	ccc	AGG		2619	Ի ԵՐ	הזה	APT	TCC	ATC	TCC	ATC.	TCG (646 rtc
																Ser	
1111	cys	741	пэр	361	uvy	'# 9	Ltu	110	'" g		***	۲	• • •	00.		0	LLW
								2673					_			-	700
GCT	GCT	CTG	CTG	ATC	GGA	GGC	TTC	GCA	GGT	CTC	ACC	TCG	ACG	GTG	ATT	TGC	AGG
Ala	Ala	Leu	Leu	He	Gly	Gly.	Phe	Ala	ыy	Leu	Ihr	Ser	Ihr	Vai	116	Cys	arg
							;	2727								2	754
TGG	ACA	CGC	ACT	GGC	ACT	AAA			CTG	CCC	ATC	TCG	GAG	ACA	GGC	GGA	
																Gly	
								1701								2	000
۸ſT	CCC	CAG	rtc.	۸۵۸	TCC	E.E.A		2781 CAC	ርልቤ	GCC	GΤΔ	เลเ	ΔΓΓ	TCA	cce	CAG	808
Thr	Pro	Glu	Leu	Arn	Cvs	Glv	LVS	HIS	Gln	Ala	Val	Gly	Thr	Ser	Pro	Gln	Arg
	• • •			3	-,-		,-					•					
								2835							٥٢٥		862
GCC	GCA	GCT	CAG	GAC	TCG	GAG	CAG	GAG	AGT	GCT	Libb Clar	Alb	GAA	CL	Ana	GAT	AL I Thu
Ala	AIQ	AlQ	UIN	ASP	26L	ulu	uin	utu	26L	nıu	uty	ישוז	utu	uty	nry	Asp	1111
							i	2889								2	916
								GGG	CAA	AGT	GGC	AGG	ACA	CTG	CAG	AAC	AGC
HIS	Arg	Leu	Pro	Arg	Ala	Leu	***										
							:	2943								2	970
TTC	ATG	TTC	CCA	AAA	TCA	CCG			TCT	III	CCA	AAC	ACA	GGC	AAA	TCG	
	,,,,	.,.		••••			.,,,										
								2997		e= 1		DT4	CTA	001	TCT	-	120
ATC	AGC	AGG	ACG	ACT	GII	ITC	CCA	ACA	Cuu	UIA	AAI	LIA	UIA	LLA	IUI	CGT	HU I
								3051									
• • •	***	0.0	cc.	TCC	ATC	447			TAT	۸۲۲	TCC	A A A	444	A A A	۸۸۸		
TAC.	10.1	L'AG	uLA	լրր	ATG	AAT	AAA	IUI	IAI	AUL	IUL	HHH	nnn	MAH	HHH		

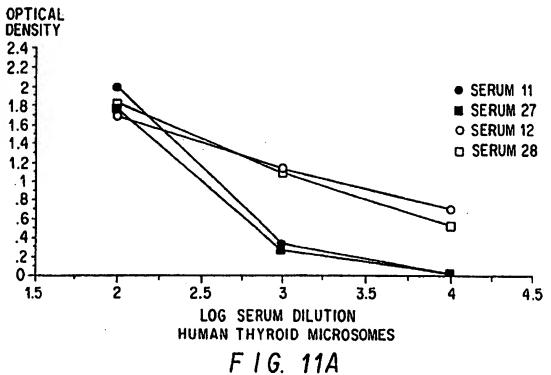


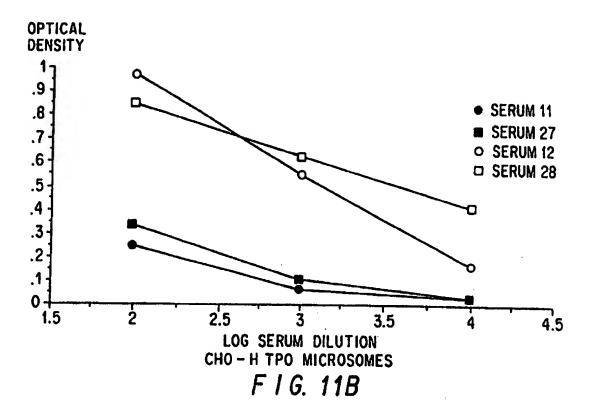
F1G. 9

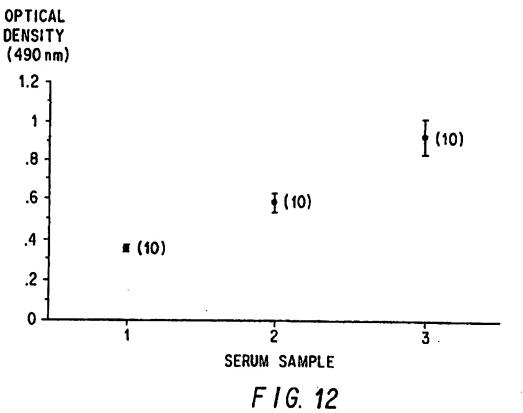












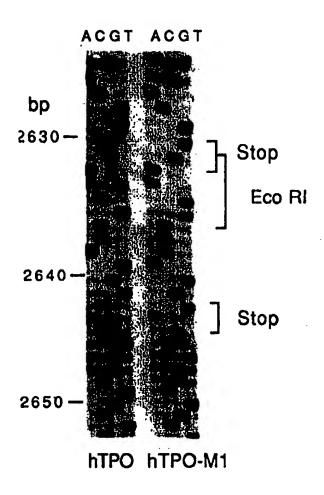
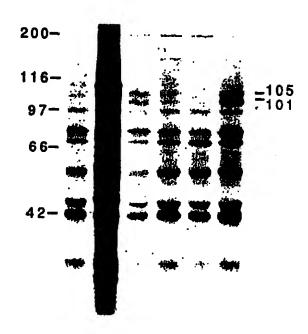
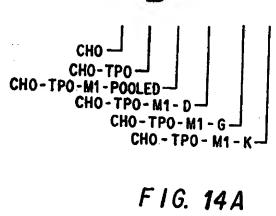
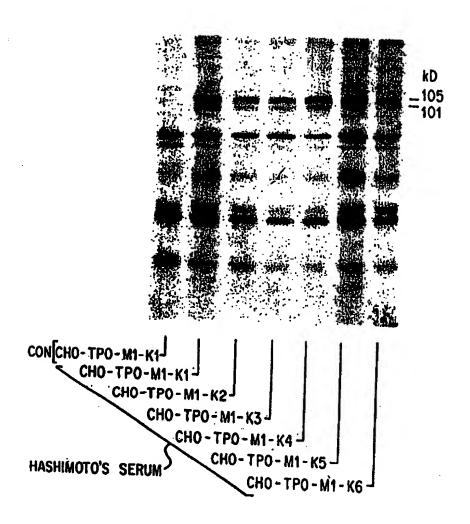


FIG. 13

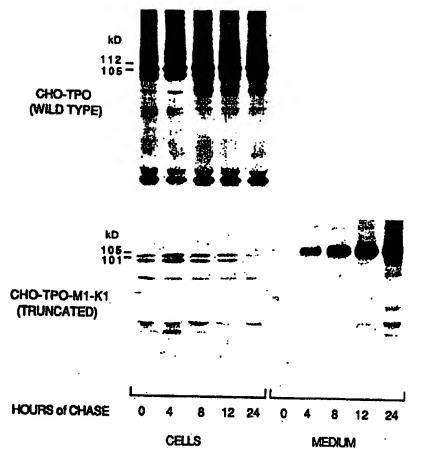




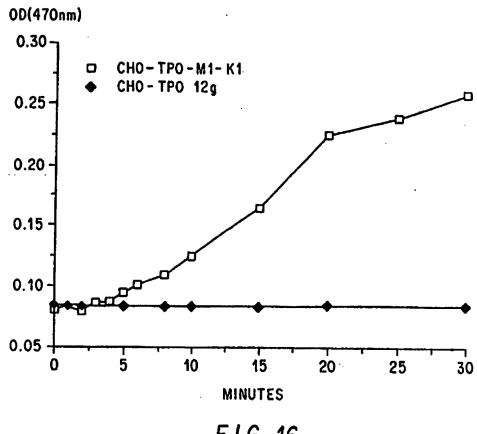
F I G. 14A



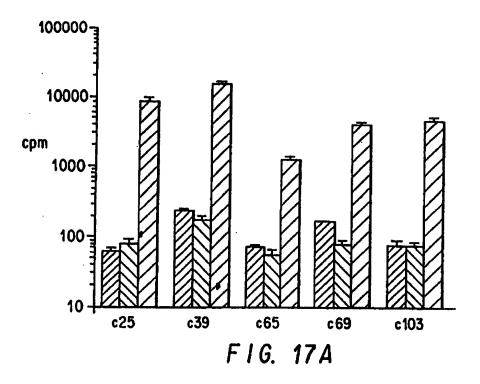
F I G. 14B

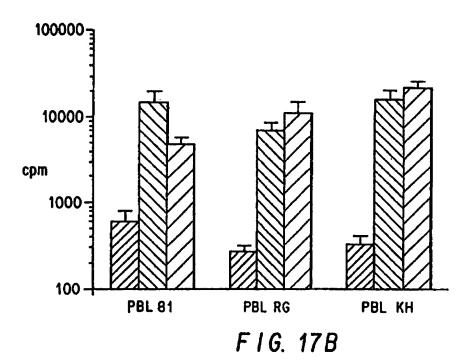


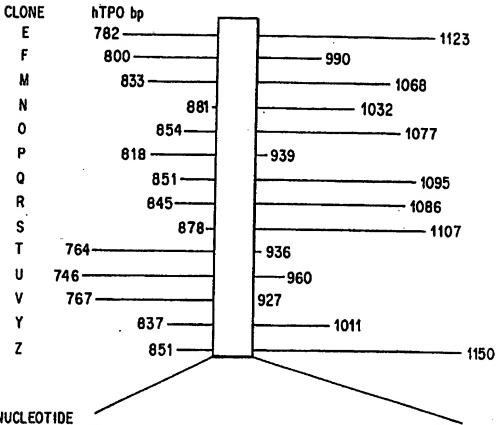
F'I G. 15



F I G. 16







NUCLEOTIDE
883 AAC CCA TGT TTT CCC ATA CAA CTC CCG GAG GAG GCC CGG CCG GCC 927
AMINO ACID
266 Asn Pro Cys Phe Pro lle Gln Leu Pro Glu Glu Ala Arg Pro Ala 281

FIG. 18

